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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
APPLICATION NO.			5004 2771	1346	
09/398,639	09/17/1999	AKIHIRO IINO	S004-3771 1346		
75	90 06/03/2002				
ADAMS AND WILKS			EXAMINER		
31ST FLOOR	••	MEDLEY, PETER M			
50 BROADWA					
NEW YORK, N	IY 10004		ART UNIT	PAPER NUMBER	
		2834			
		DATE MAILED: 06/03/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

**	Application N		Applicant(s)	<i>i</i>			
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f Office Action Summany	09/398,639		IINO ET AL.				
Office Action Summary	Examiner		Art Unit				
The MAILING DATE of this communication a	Peter M Medie		2834	ldress			
The MAILING DATE of this communication appeared for Reply	ppears on the CO	ver sheet with the (orrespondence au				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 25 2a) This action is FINAL . 2b) □	This action is no	n-final					
			prosecution as to th	ne merits is			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠ Claim(s) <u>1 and 29-47</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1,29-33,37,38,45 and 46</u> is/are rejected.							
7) Claim(s) <u>34-36,39-44 and 47</u> is/are objected							
8) Claim(s) are subject to restriction and	1/or election requ	urement.					
Application Papers							
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to							
11) The proposed drawing correction filed on							
If approved, corrected drawings are required in							
12)☐ The oath or declaration is objected to by the	Examiner.						
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for fore	ign priority unde	r 35 U.S.C. § 119	(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority docume	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) Notice of Informa	ary (PTO-413) Paper N al Patent Application (P				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 29-33, 37, 38, and 45 are rejected under 35 U.S.C. 102(b) as being anticipated by Asselbergs.

With respect to claims 1, 29, 31, and 45, the reference discloses in **fig. 8** an actuator comprising layers with different lengths, same thickness, and the length greater than the thickness.

With respect to claims 30, 32, and 33, the reference discloses rectangular shape.

With respect to claim 37, the reference discloses longitudinal vibration in the first full paragraph of column 7.

With respect to claim 38, discloses free end and fixed end in fig. 8.

3. Claim 46 is rejected under 35 U.S.C. 102(b) as being anticipated by DE 31 42 684.

The reference discloses in **fig. 2** a cantilevered piezoelectric actuator with first and second pairs of piezoelectric elements having the same thickness.

Allowable Subject Matter

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4. Claims 34-36, 39-44, and 46-47 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter M Medley whose telephone number is 703-305-0494. The examiner can normally be reached on Monday-Friday 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 703-308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3432 for regular communications and 703-305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

PM May 29, 2002 NESTOR RAMIREZ

NESTOR RAMIREZ

NESTOR PROPRENT EXAMINE

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